

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
21 February 2002 (21.02.2002)

PCT

(10) International Publication Number
WO 02/014366 A3

(51) International Patent Classification⁷: **C12N 15/12**,
A61K 48/00, C07K 14/47, 14/705, 16/18

(21) International Application Number: PCT/NL01/00610

(22) International Filing Date: 16 August 2001 (16.08.2001)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
00202867.8 16 August 2000 (16.08.2000) EP

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(81) Designated States (*national*): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW.

(84) Designated States (*regional*): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

— with international search report

(88) Date of publication of the international search report:
8 August 2002

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.



WO 02/014366 A3

(54) Title: GENES INVOLVED IN IMMUNE RELATED RESPONSES OBSERVED WITH ASTHMA

(57) Abstract: Asthma is one of the most common chronic diseases (155 million people worldwide) and is rapidly increasing (20-50 % per decade), particularly in children (currently 10 % in The Netherlands). Asthma impairs the quality of life and is a major cause of absence from school and work. Asthma, if not treated properly, can be life threatening. The invention provides a nucleic acid library comprising genes or functional fragments thereof said genes are essentially capable of initiation and/or progression and/or suppression and/or repression of an immune response.

A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 C12N15/12 A61K48/00 C07K14/47 C07K14/705 C07K16/18

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 C12N A61K C07K

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the International search (name of data base and, where practical, search terms used)

BIOSIS, EPO-Internal, WPI Data, MEDLINE

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 99 37809 A (AXYS PHARMACEUTICALS INC.) 29 July 1999 (1999-07-29) page 42, paragraph 1 ---	1-3,5
X	KIKLY KK ET AL: "Identification of SAF-2, a novel siglec expressed on eosinophils, mast cells, and basophils." JOURNAL OF ALLERGY AND CLINICAL IMMUNOLOGY, vol. 105, no. 6 Part 1, June 2000 (2000-06), pages 1093-1100, XP000981935 ISSN: 0091-6749 page 1094, paragraph 1; figure 5 --- -/--	1-3,5

☒ Further documents are listed in the continuation of box C.☒ Patent family members are listed in annex.

* Special categories of cited documents:

- *A* document defining the general state of the art which is not considered to be of particular relevance
- *E* earlier document but published on or after the international filing date
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- *O* document referring to an oral disclosure, use, exhibition or other means
- *P* document published prior to the international filing date but later than the priority date claimed

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- *X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- *Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- *&* document member of the same patent family

Date of the actual completion of the international search

8 April 2002

Date of mailing of the international search report

15/04/2002

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 99 62556 A (EFFECTOR CELL INST ;HIRASHIMA MITSUOMI (JP); KANEGASAKI SHIRO (JP)) 9 December 1999 (1999-12-09) * abstract *	1-3,5
X	----- WELFORD SM ET AL: "Detection of differentially expressed genes in primary tumor tissues using representation differences analysis coupled to microarray hybridization." NUCLEIC ACIDS RESEARCH, vol. 26, no. 12, 15 June 1998 (1998-06-15), pages 3059-3065, XP002159572 ISSN: 0305-1048 the whole document	1-3,5
A	----- LURTON J ET AL: "Isolation of a gene product expressed by a subpopulation of human lung fibroblasts by differential display." AMERICAN JOURNAL OF RESPIRATORY CELL AND MOLECULAR BIOLOGY, vol. 20, no. 2, February 1999 (1999-02), pages 327-331, XP002159573 ISSN: 1044-1549 figure 5 -----	

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

Continuation of Box I.2

Claims Nos.: 4, 6-24

In view of the wording of claims 4 and 6-24 presently on file, which render it difficult, if not impossible, to determine the matter for which protection is sought, the present application fails to comply with the clarity and conciseness requirements of Article 6 PCT (see also Rule 6.1(a) PCT) to such an extent that a meaningful search is impossible.

The applicant's attention is drawn to the fact that claims, or parts of claims, relating to inventions in respect of which no international search report has been established need not be the subject of an international preliminary examination (Rule 66.1(e) PCT). The applicant is advised that the EPO policy when acting as an International Preliminary Examining Authority is normally not to carry out a preliminary examination on matter which has not been searched. This is the case irrespective of whether or not the claims are amended following receipt of the search report or during any Chapter II procedure.

INTERNATIONAL SEARCH REPORT

ation on patent family members

International Application No

PCT/NL 01/00610

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